

(b)(3)

*** UNCLASSIFIED ***

SEQUENCE NR: CSB80233216 0002-SNYDERLS SEARCH ID-81FEB09/00.03. /L35

TITLE: APPARATUS TO MODEL BIOELECTRIC WAVES OF
ELECTROENCEPHALOGRAMS.
REFERENCE: OTKRYTIYA, IZOBRETIENIYA PROMYSHLENNYYE OBRATZSY,
TOVARNYYE ZNAKI (COVER TO COVER)
605349.
79, NO. 18, 287
LOCATION: USSR
FOODATE: 760610.
SATI: ELECTRONICS AND ELECTRICAL ENGR.; METHODS AND EQUIPMENT
C: 615.475.
IC CATEGORY: A-61B-5/00; G-06C-7/60.
CLASS/DOWNGRADE: UNCLASSIFIED
CONTROL MARKINGS: NONE.

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XT: ENTIRE.

APPARATUS TO MODEL BIOELECTRIC WAVES OF ELECTROENCEPHALOGRAMS CONTAINS A CONTROL SIGNAL GENERATOR, SUMMATOR AND SIGNAL FORMING CIRCUITS. TO ELEVATE THE ACCURACY OF MODELING SLOW BIOPOTENTIALS OF ELECTROENCEPHALOGRAMS, THE DEVICE FEATURES A LOAD CIRCUIT AMPLIFIER, AND THE SIGNAL FORMING CIRCUITS CONSIST OF $N_{SUB K}$ AMPLIFIERS AND $N_{SUB K} - 1$ DELAY ELEMENTS, WHERE $N_{SUB K}$ IS THE NUMBER OF AMPLIFIERS IN THE NUMBER K SIGNAL FORMING CIRCUIT. THE CONTROL SIGNAL GENERATOR, LOAD CIRCUIT AMPLIFIER AND A LOAD RESISTOR ARE SEQUENTIALLY CONNECTED, WHILE THE CONTROL SIGNAL GENERATOR'S OUTPUT IS JOINED WITH THE INPUT OF THE FIRST SIGNAL FORMER'S FIRST AMPLIFIER. THE AMPLIFIERS OF EACH SIGNAL FORMING CIRCUIT ARE SEQUENTIALLY INTERCONNECTED THROUGH DELAY ELEMENTS. THE NUMBER OF SIGNAL FORMING CIRCUITS IS GIVEN BY A FORMULA IN THE TEXT. THE OUTPUT OF THE FIRST AMPLIFIER OF EACH SIGNAL FORMING CIRCUIT IS JOINED THROUGH A DELAY ELEMENT WITH THE INPUT OF THE FIRST AMPLIFIER OF THE SUBSEQUENT SIGNAL FORMING CIRCUIT, WHOSE NUMBER OF AMPLIFIERS IS TWO LESS THAN THE QUANTITY OF AMPLIFIERS OF THE PRECEDING SIGNAL FORMING CIRCUIT. THE OUTPUTS OF EACH AMPLIFIER IS CONNECTED TO THE SUMMATOR'S CORRESPONDING INPUTS.

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PERSONALITY: GFDEVANI, D-M
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NATIONALITY: USSR